Test Laboratory: UnionTrust Date: 2019/2/18

P01_GSM850_GPRS10_Right Cheek_251

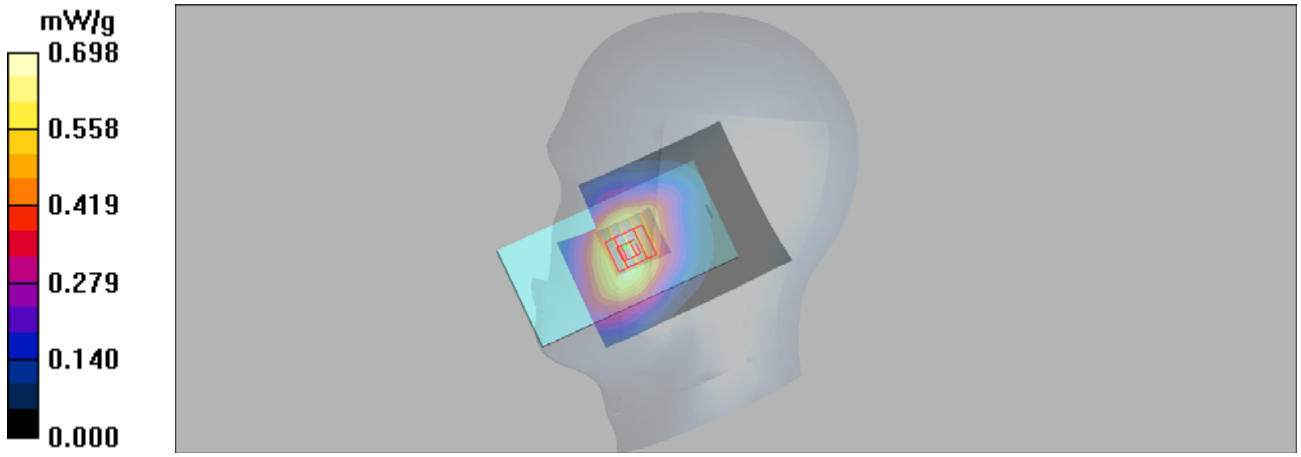
DUT: EUT

Communication System: GPRS 850-2solt; Frequency: 848.8 MHz;Duty Cycle: 1:4
Medium: H850 Medium parameters used: f = 849 MHz; σ = 0.903 mho/m; ε_r = 42.2; ρ = 1000 kg/m^3

DASY4 Configuration:
- Probe: ES3DV3 - SN3090; ConvF(6.34, 6.34, 6.34); Calibrated: 2018/4/3
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn662; Calibrated: 2018/5/11
- Phantom: SAM 1; Type: QD 000 P40 CB; Serial: TP/1378
- ; Postprocessing SW: SEMCAD, V1.8 Build 186

Test/Area Scan (71x91x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.698 mW/g

Test/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 7.30 V/m; Power Drift = 0.09 dB
Peak SAR (extrapolated) = 0.818 W/kg
SAR(1 g) = 0.626 mW/g; SAR(10 g) = 0.467 mW/g
Maximum value of SAR (measured) = 0.692 mW/g



Test Laboratory: UnionTrust Date: 2019/2/15

P02_GSM1900_GPRS12_Right Cheek_512

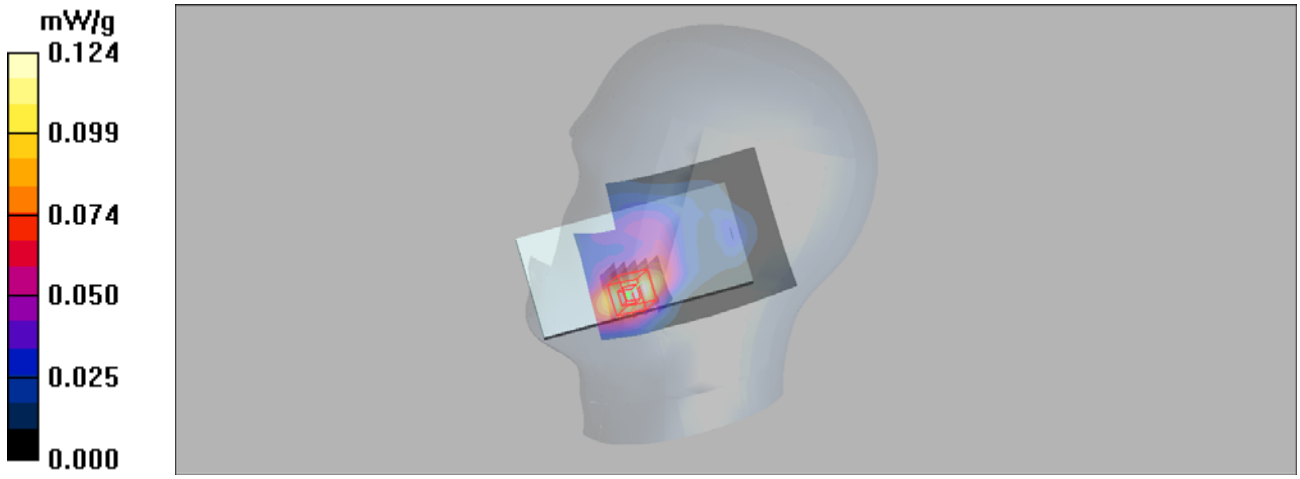
DUT: EUT

Communication System: GPRS1900-4slots; Frequency: 1850.2 MHz;Duty Cycle: 1:2
Medium: H1900 Medium parameters used (interpolated): f = 1850.2 MHz; σ = 1.38 mho/m; ε_r = 40; ρ = 1000 kg/m^3

DASY4 Configuration:
- Probe: ES3DV3 - SN3090; ConvF(4.92, 4.92, 4.92); Calibrated: 2018/4/3
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn662; Calibrated: 2018/5/11
- Phantom: SAM 2; Type: QD 000 P40 CB; Serial: TP-1376
- ; Postprocessing SW: SEMCAD, V1.8 Build 186

Test/Area Scan (71x91x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.124 mW/g

Test/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 4.86 V/m; Power Drift = -0.130 dB
Peak SAR (extrapolated) = 0.161 W/kg
SAR(1 g) = 0.103 mW/g; SAR(10 g) = 0.063 mW/g
Maximum value of SAR (measured) = 0.123 mW/g



Test Laboratory: UnionTrust Date: 2019/2/15

P03_WCDMA II_RMC12.2K_Right Cheek_9262

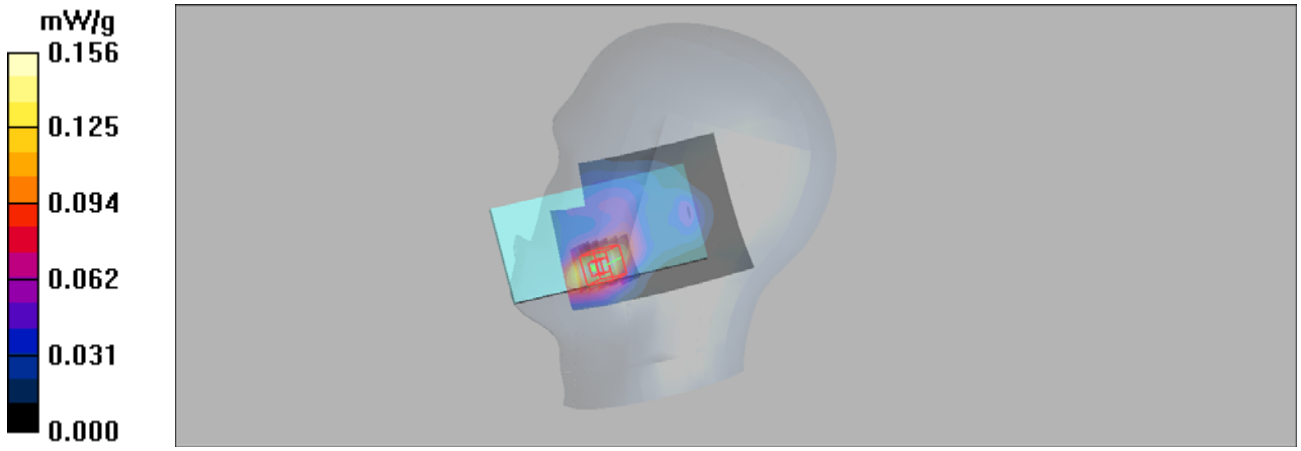
DUT: EUT

Communication System: WCDMA Band II; Frequency: 1852.4 MHz;Duty Cycle: 1:1
Medium: H1900 Medium parameters used (interpolated): f = 1852.4 MHz; σ = 1.39 mho/m; ε_r = 40; ρ = 1000 kg/m^3

DASY4 Configuration:
- Probe: ES3DV3 - SN3090; ConvF(4.92, 4.92, 4.92); Calibrated: 2018/4/3
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn662; Calibrated: 2018/5/11
- Phantom: SAM 2; Type: QD 000 P40 CB; Serial: TP-1376
- ; Postprocessing SW: SEMCAD, V1.8 Build 186

Test/Area Scan (71x91x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.156 mW/g

Test/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 6.22 V/m; Power Drift = -0.04 dB
Peak SAR (extrapolated) = 0.196 W/kg
SAR(1 g) = 0.131 mW/g; SAR(10 g) = 0.083 mW/g
Maximum value of SAR (measured) = 0.153 mW/g



Test Laboratory: UnionTrust Date: 2019/2/18

P04_WCDMA V_RMC12.2K_Right Cheek_4132

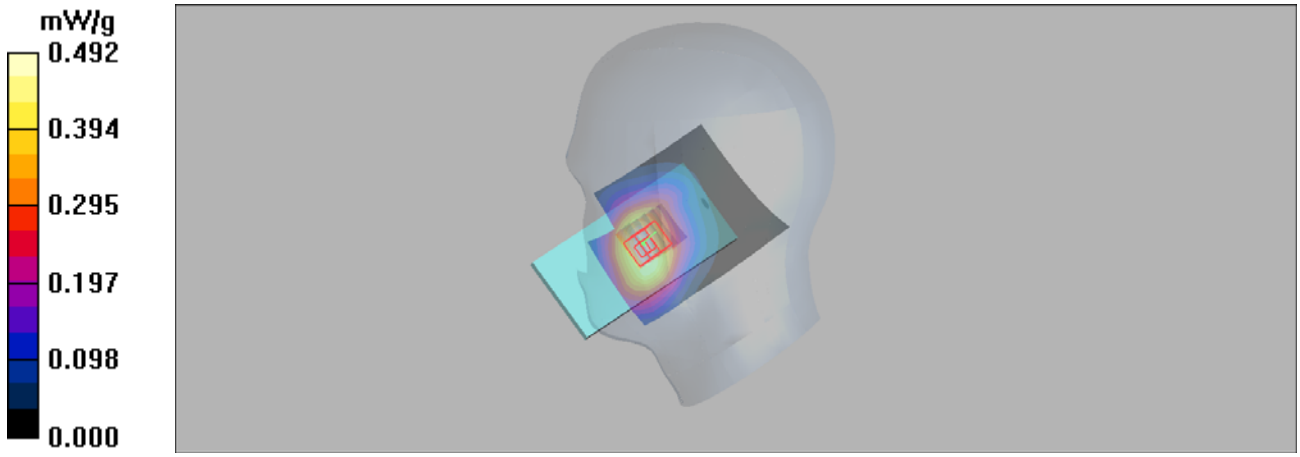
DUT: EUT

Communication System: WCDMA Band V; Frequency: 826.4 MHz;Duty Cycle: 1:1
Medium: H850 Medium parameters used (interpolated): f = 826.4 MHz; σ = 0.882 mho/m; ε_r = 42.5; ρ = 1000 kg/m^3

DASY4 Configuration:
- Probe: ES3DV3 - SN3090; ConvF(6.34, 6.34, 6.34); Calibrated: 2018/4/3
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn662; Calibrated: 2018/5/11
- Phantom: SAM 1; Type: QD 000 P40 CB; Serial: TP/1378
- ; Postprocessing SW: SEMCAD, V1.8 Build 186

Test/Area Scan (71x91x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.492 mW/g

Test/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 6.10 V/m; Power Drift = 0.04 dB
Peak SAR (extrapolated) = 0.577 W/kg
SAR(1 g) = 0.445 mW/g; SAR(10 g) = 0.331 mW/g
Maximum value of SAR (measured) = 0.496 mW/g



Test Laboratory: UnionTrust Date: 2019/2/15

P05_LTE 2_QPSK20M_Right Cheek_18700_1RB_50 offset

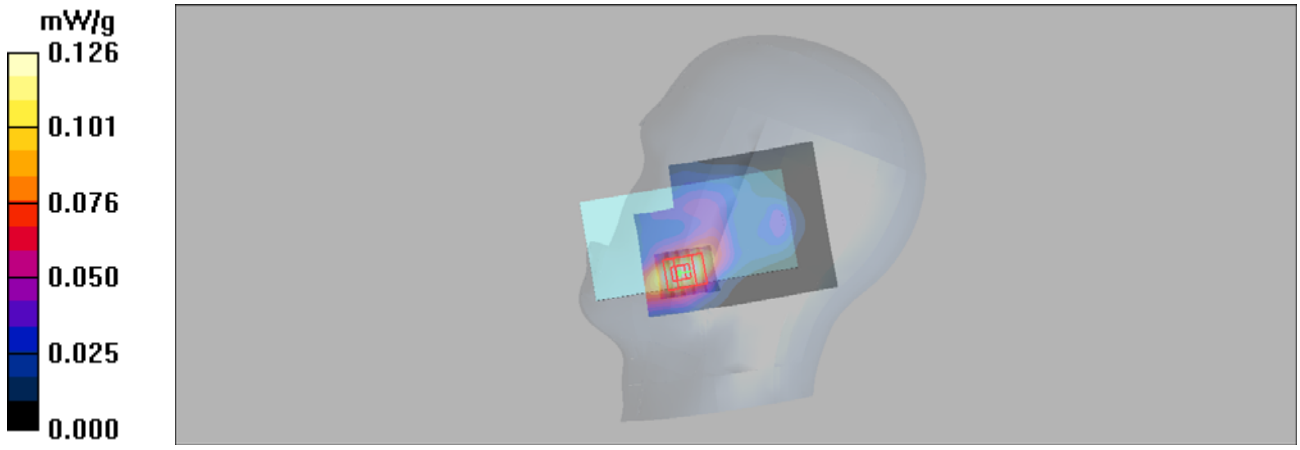
DUT: EUT

Communication System: LTE Band 2; Frequency: 1860 MHz;Duty Cycle: 1:1
Medium: H1900 Medium parameters used: f = 1860 MHz; σ = 1.39 mho/m; ε_r = 40; ρ = 1000 kg/m^3

DASY4 Configuration:
- Probe: ES3DV3 - SN3090; ConvF(4.92, 4.92, 4.92); Calibrated: 2018/4/3
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn662; Calibrated: 2018/5/11
- Phantom: SAM 2; Type: QD 000 P40 CB; Serial: TP-1376
- ; Postprocessing SW: SEMCAD, V1.8 Build 186

Test/Area Scan (71x91x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.126 mW/g

Test/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 5.53 V/m; Power Drift = 0.08 dB
Peak SAR (extrapolated) = 0.162 W/kg
SAR(1 g) = 0.105 mW/g; SAR(10 g) = 0.067 mW/g
Maximum value of SAR (measured) = 0.125 mW/g



Test Laboratory: UnionTrust Date: 2019/2/15

P06_LTE 4_QPSK20M_Right Cheek_20300_1RB_50 offset

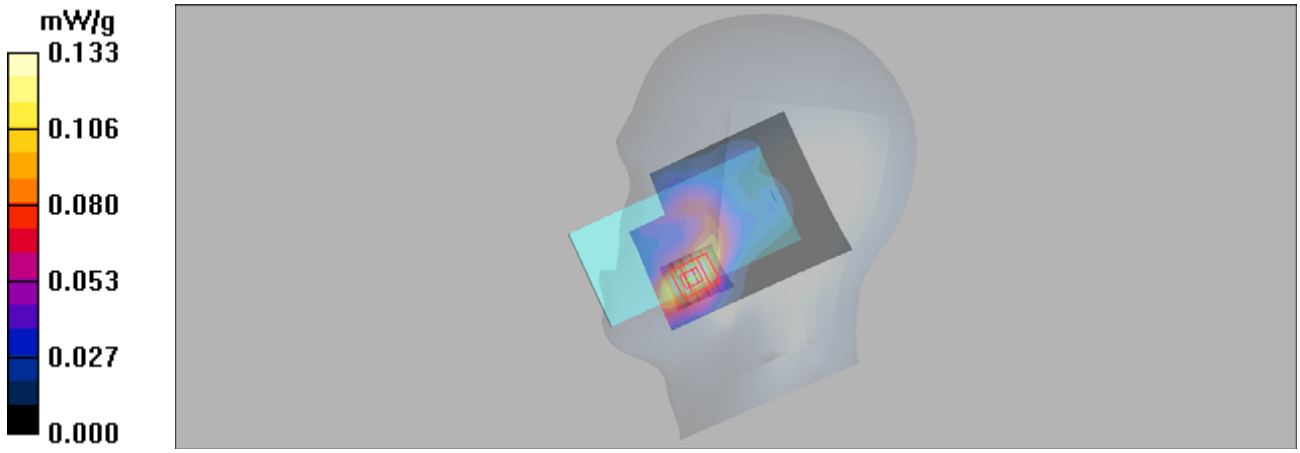
DUT: EUT

Communication System: LTE Band 4&20M; Frequency: 1745 MHz;Duty Cycle: 1:1
Medium: H1750 Medium parameters used: f = 1745 MHz; σ = 1.36 mho/m; ε_r = 40.4; ρ = 1000 kg/m^3

DASY4 Configuration:
- Probe: ES3DV3 - SN3090; ConvF(5.3, 5.3, 5.3); Calibrated: 2018/4/3
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn662; Calibrated: 2018/5/11
- Phantom: SAM 2; Type: QD 000 P40 CB; Serial: TP-1376
- ; Postprocessing SW: SEMCAD, V1.8 Build 186

Test/Area Scan (71x91x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.133 mW/g

Test/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 4.13 V/m; Power Drift = 0.08 dB
Peak SAR (extrapolated) = 0.166 W/kg
SAR(1 g) = 0.113 mW/g; SAR(10 g) = 0.073 mW/g
Maximum value of SAR (measured) = 0.132 mW/g



Test Laboratory: UnionTrust Date: 2019/2/15

P07_LTE 5_QPSK10M_Right Cheek_20450_1RB_24 offset

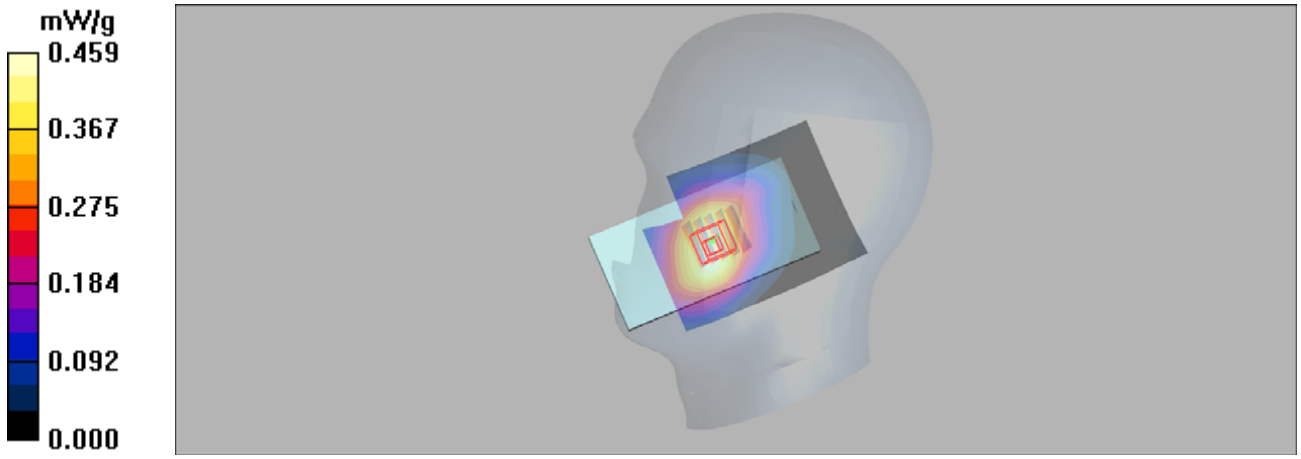
DUT: EUT

Communication System: LTE FDD 10M-Band 5; Frequency: 829 MHz;Duty Cycle: 1:1
Medium: H850 Medium parameters used: f = 829 MHz; σ = 0.885 mho/m; ε_r = 42.4; ρ = 1000 kg/m^3

DASY4 Configuration:
- Probe: ES3DV3 - SN3090; ConvF(6.34, 6.34, 6.34); Calibrated: 2018/4/3
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn662; Calibrated: 2018/5/11
- Phantom: SAM 1; Type: QD 000 P40 CB; Serial: TP/1378
- ; Postprocessing SW: SEMCAD, V1.8 Build 186

Test/Area Scan (71x91x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.459 mW/g

Test/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 6.11 V/m; Power Drift = -0.04 dB
Peak SAR (extrapolated) = 0.555 W/kg
SAR(1 g) = 0.420 mW/g; SAR(10 g) = 0.313 mW/g
Maximum value of SAR (measured) = 0.466 mW/g



Test Laboratory: UnionTrust Date: 2019/2/19

P08_LTE 7_QPSK20M_Right Cheek_21350_1RB_50 offset_mend

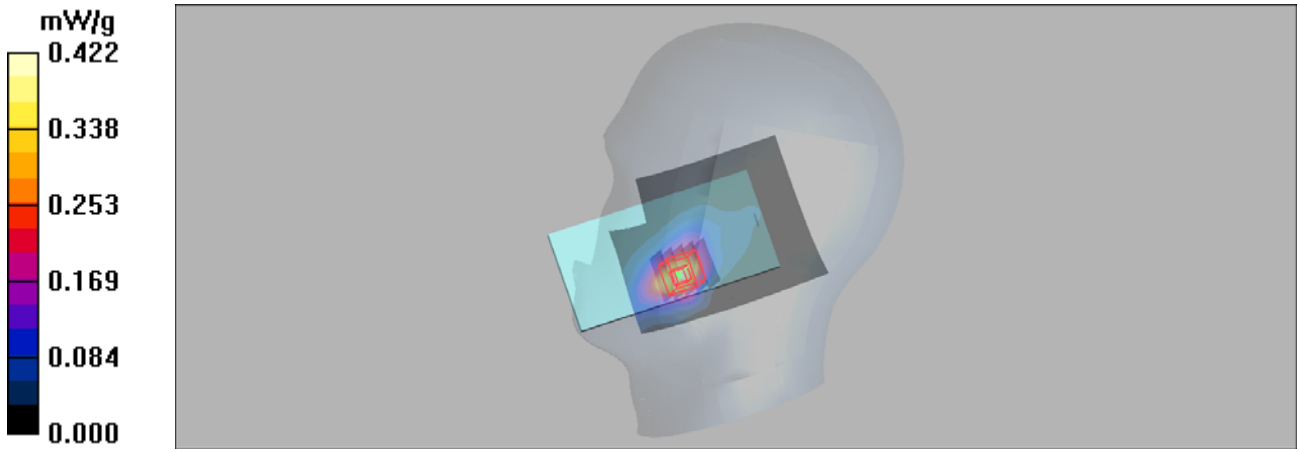
DUT: EUT

Communication System: LTE Band 7; Frequency: 2560 MHz;Duty Cycle: 1:1
Medium: H2600 Medium parameters used: f = 2560 MHz; σ = 2.01 mho/m; ε_r = 37.8; ρ = 1000 kg/m^3

DASY4 Configuration:
- Probe: ES3DV3 - SN3090; ConvF(4.47, 4.47, 4.47); Calibrated: 2018/4/3
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn662; Calibrated: 2018/5/11
- Phantom: SAM 2; Type: QD 000 P40 CB; Serial: TP-1376
- ; Postprocessing SW: SEMCAD, V1.8 Build 186

Test/Area Scan (71x91x1): Measurement grid: dx=12mm, dy=12mm
Maximum value of SAR (interpolated) = 0.422 mW/g

Test/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 4.25 V/m; Power Drift = 0.14 dB
Peak SAR (extrapolated) = 0.553 W/kg
SAR(1 g) = 0.307 mW/g; SAR(10 g) = 0.168 mW/g
Maximum value of SAR (measured) = 0.371 mW/g



Test Laboratory: UnionTrust Date: 2019/2/19

P09_802.11b_Right Cheek_1

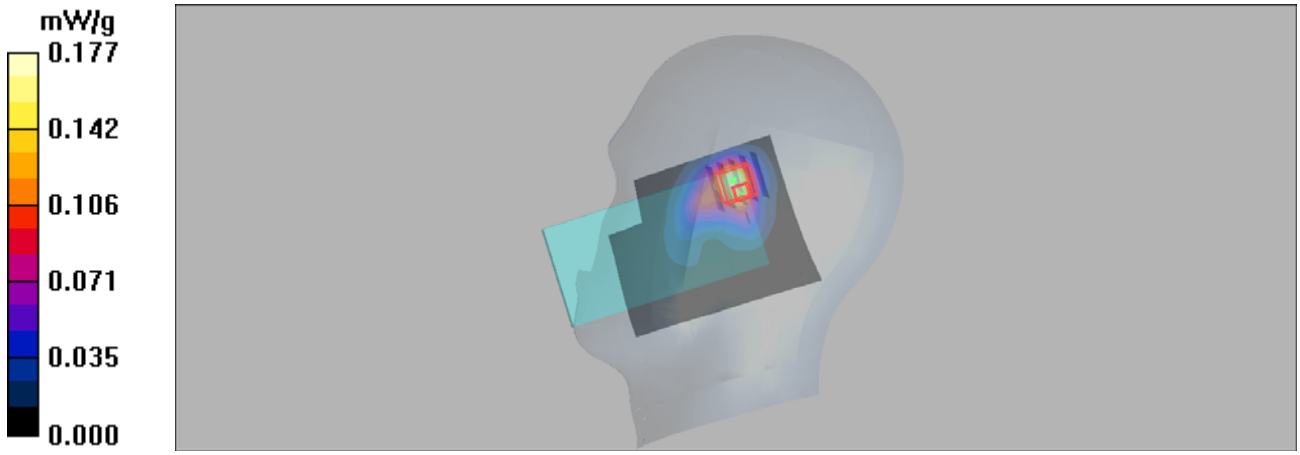
DUT: EUT

Communication System: Wlan 802.11b; Frequency: 2412 MHz;Duty Cycle: 1:1
Medium: H2450 Medium parameters used: f = 2412 MHz; σ = 1.78 mho/m; ε_r = 37.8; ρ = 1000 kg/m^3

DASY4 Configuration:
- Probe: ES3DV3 - SN3090; ConvF(4.54, 4.54, 4.54); Calibrated: 2018/4/3
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn662; Calibrated: 2018/5/11
- Phantom: SAM 2; Type: QD 000 P40 CB; Serial: TP-1376
- ; Postprocessing SW: SEMCAD, V1.8 Build 186

Test/Area Scan (71x91x1): Measurement grid: dx=12mm, dy=12mm
Maximum value of SAR (interpolated) = 0.177 mW/g

Test/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 6.39 V/m; Power Drift = -0.13 dB
Peak SAR (extrapolated) = 0.258 W/kg
SAR(1 g) = 0.116 mW/g; SAR(10 g) = 0.060 mW/g
Maximum value of SAR (measured) = 0.144 mW/g



Test Laboratory: UnionTrust Date: 2019/2/11

P10_GSM850_GPRS10_Rear Face_10mm_128

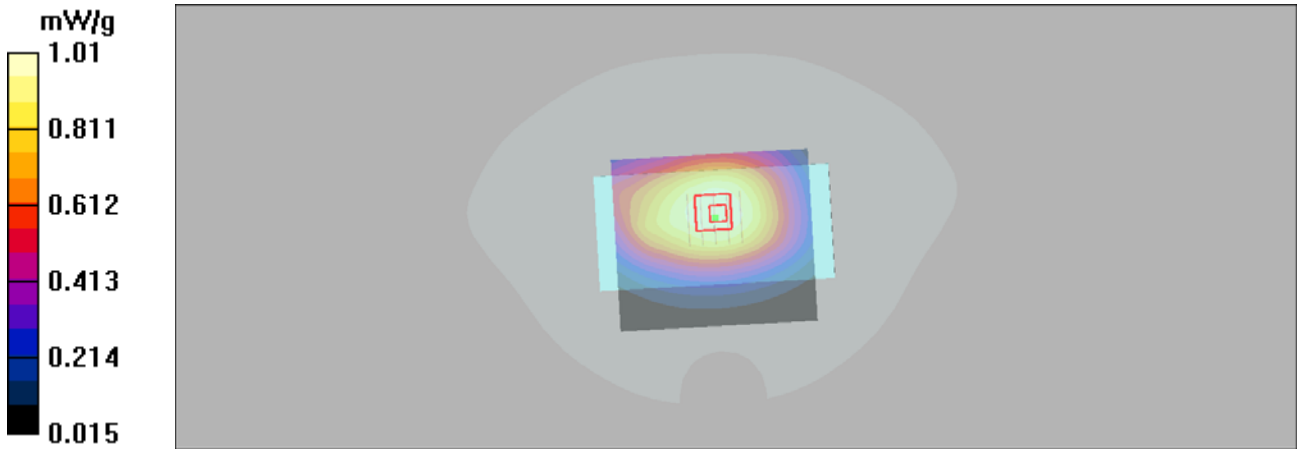
DUT: EUT

Communication System: GPRS 850-2solt; Frequency: 824.2 MHz;Duty Cycle: 1:4
Medium: M850 Medium parameters used (interpolated): f = 824.2 MHz; σ = 0.982 mho/m; ε_r = 55.7; ρ = 1000 kg/m^3

DASY4 Configuration:
- Probe: ES3DV3 - SN3090; ConvF(6.41, 6.41, 6.41); Calibrated: 2018/4/3
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn662; Calibrated: 2018/5/11
- Phantom: SAM 1; Type: QD 000 P40 CB; Serial: TP/1378
- ; Postprocessing SW: SEMCAD, V1.8 Build 186

Test/Area Scan (71x81x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 1.01 mW/g

Test/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 32.3 V/m; Power Drift = -0.04 dB
Peak SAR (extrapolated) = 1.20 W/kg
SAR(1 g) = 0.921 mW/g; SAR(10 g) = 0.700 mW/g
Maximum value of SAR (measured) = 1.01 mW/g



P11_GSM1900_GPRS12_Bottom Side_10mm_512

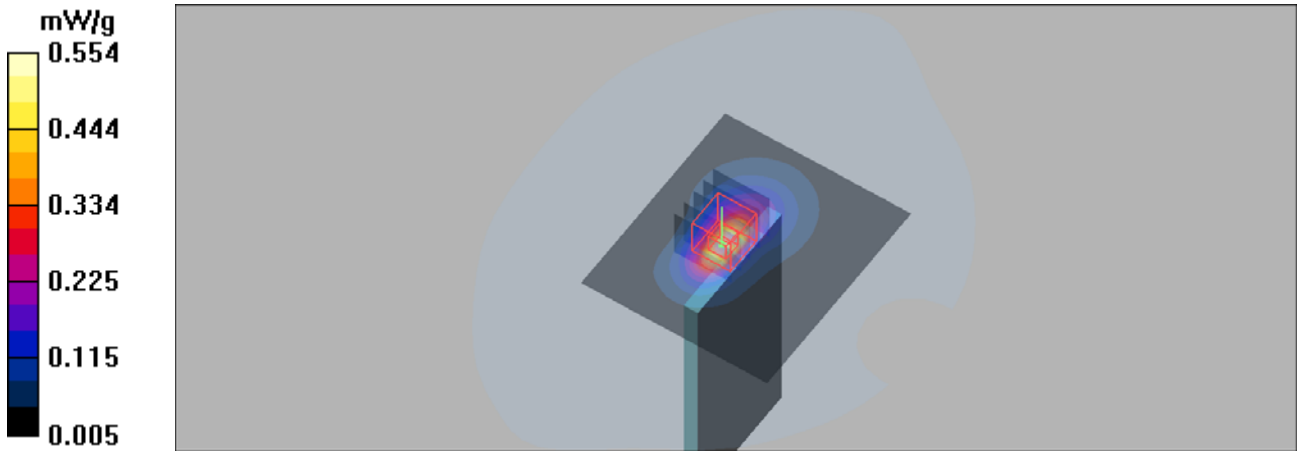
DUT: EUT

Communication System: GPRS1900-4slots; Frequency: 1850.2 MHz;Duty Cycle: 1:2
Medium: M1900 Medium parameters used (interpolated): f = 1850.2 MHz; σ = 1.49 mho/m; ε_r = 52.8; ρ = 1000 kg/m^3

DASY4 Configuration:
- Probe: ES3DV3 - SN3090; ConvF(4.48, 4.48, 4.48); Calibrated: 2018/4/3
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn662; Calibrated: 2018/5/11
- Phantom: SAM 2; Type: QD 000 P40 CB; Serial: TP-1376
- ; Postprocessing SW: SEMCAD, V1.8 Build 186

Test/Area Scan (71x81x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.554 mW/g

Test/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 19.7 V/m; Power Drift = -0.066dB
Peak SAR (extrapolated) = 0.792 W/kg
SAR(1 g) = 0.460 mW/g; SAR(10 g) = 0.244 mW/g
Maximum value of SAR (measured) = 0.583 mW/g



Test Laboratory: UnionTrust Date: 2019/2/12

P12_WCDMA II_RMC12.2K_Bottom Side_10mm_9262

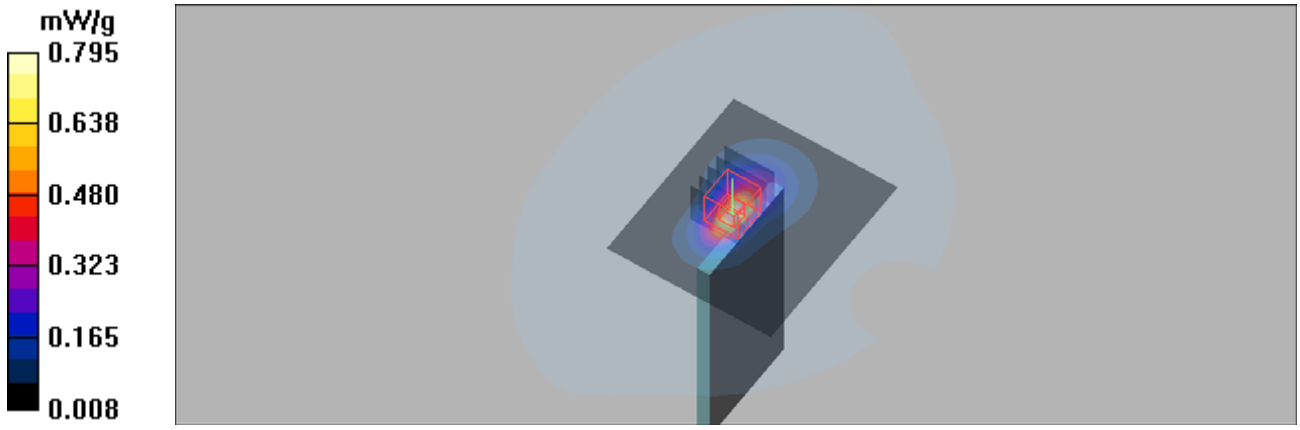
DUT: EUT

Communication System: WCDMA Band II; Frequency: 1852.4 MHz;Duty Cycle: 1:1
Medium: M1900 Medium parameters used (interpolated): f = 1852.4 MHz; σ = 1.49 mho/m; ε_r = 52.8; ρ = 1000 kg/m^3

DASY4 Configuration:
- Probe: ES3DV3 - SN3090; ConvF(4.48, 4.48, 4.48); Calibrated: 2018/4/3
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn662; Calibrated: 2018/5/11
- Phantom: SAM 2; Type: QD 000 P40 CB; Serial: TP-1376
- ; Postprocessing SW: SEMCAD, V1.8 Build 186

Test/Area Scan (71x81x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.795 mW/g

Test/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 23.8 V/m; Power Drift = -0.05 dB
Peak SAR (extrapolated) = 1.05 W/kg
SAR(1 g) = 0.611 mW/g; SAR(10 g) = 0.322 mW/g
Maximum value of SAR (measured) = 0.775 mW/g



Test Laboratory: UnionTrust Date: 2019/2/11

P13_WCDMA V_RMC12.2K_Rear Face_10mm_4132

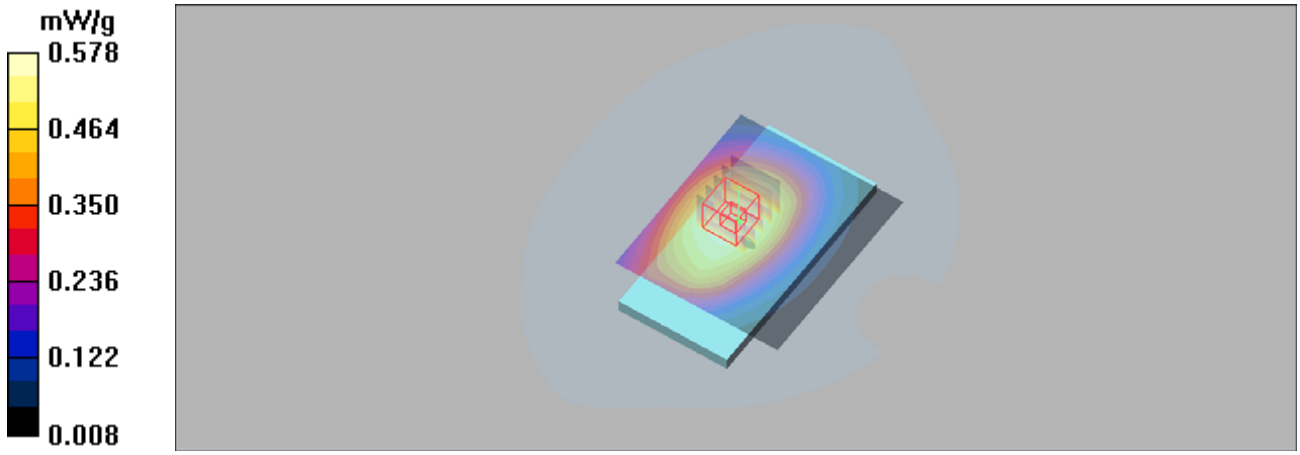
DUT: EUT

Communication System: WCDMA Band V; Frequency: 826.4 MHz;Duty Cycle: 1:1
Medium: M850 Medium parameters used (interpolated): f = 826.4 MHz; σ = 0.984 mho/m; ε_r = 55.7; ρ = 1000 kg/m^3

DASY4 Configuration:
- Probe: ES3DV3 - SN3090; ConvF(6.41, 6.41, 6.41); Calibrated: 2018/4/3
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn662; Calibrated: 2018/5/11
- Phantom: SAM 1; Type: QD 000 P40 CB; Serial: TP/1378
- ; Postprocessing SW: SEMCAD, V1.8 Build 186

Test/Area Scan (71x81x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.578 mW/g

Test/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 24.4 V/m; Power Drift = -0.02 dB
Peak SAR (extrapolated) = 0.676 W/kg
SAR(1 g) = 0.520 mW/g; SAR(10 g) = 0.395 mW/g
Maximum value of SAR (measured) = 0.572 mW/g



Test Laboratory: UnionTrust Date: 2019/2/12

P14_LTE 2_QPSK20M_Bottom Side_10mm_18700_1RB_50 offset

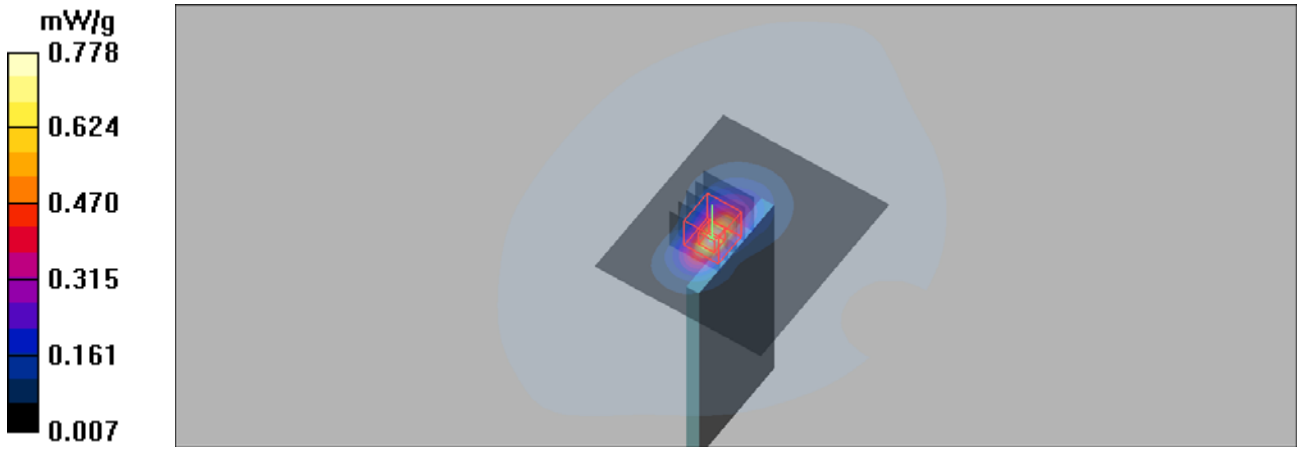
DUT: EUT

Communication System: LTE Band 2; Frequency: 1860 MHz;Duty Cycle: 1:1
Medium: M1900 Medium parameters used: f = 1860 MHz; σ = 1.5 mho/m; ε_r = 52.7; ρ = 1000 kg/m^3

DASY4 Configuration:
- Probe: ES3DV3 - SN3090; ConvF(4.48, 4.48, 4.48); Calibrated: 2018/4/3
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn662; Calibrated: 2018/5/11
- Phantom: SAM 2; Type: QD 000 P40 CB; Serial: TP-1376
- ; Postprocessing SW: SEMCAD, V1.8 Build 186

Test/Area Scan (71x81x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.778 mW/g

Test/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 19.7 V/m; Power Drift = 0.03dB
Peak SAR (extrapolated) = 1.16 W/kg
SAR(1 g) = 0.656 mW/g; SAR(10 g) = 0.338 mW/g
Maximum value of SAR (measured) = 0.837 mW/g



P15_LTE 4_QPSK20M_Bottom Side_10mm_20300_1RB_50 offset

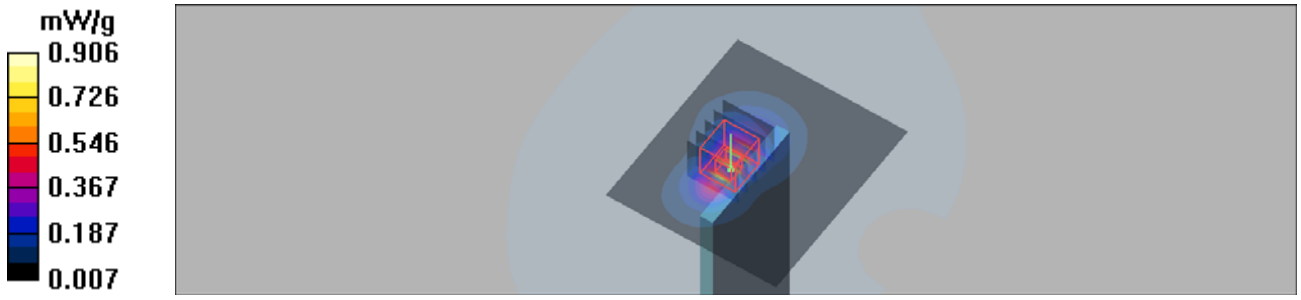
DUT: EUT

Communication System: LTE Band 4&20M; Frequency: 1745 MHz;Duty Cycle: 1:1
Medium: M1750 Medium parameters used: f = 1745 MHz; σ = 1.45 mho/m; ε_r = 54.3; ρ = 1000 kg/m^3

DASY4 Configuration:
- Probe: ES3DV3 - SN3090; ConvF(4.95, 4.95, 4.95); Calibrated: 2018/4/3
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn662; Calibrated: 2018/5/11
- Phantom: SAM 2; Type: QD 000 P40 CB; Serial: TP-1376
- ; Postprocessing SW: SEMCAD, V1.8 Build 186

Test/Area Scan (71x81x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.906 mW/g

Test/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 22.7 V/m; Power Drift = 0.1 dB
Peak SAR (extrapolated) = 1.33 W/kg
SAR(1 g) = 0.673 mW/g; SAR(10 g) = 0.402 mW/g
Maximum value of SAR (measured) = 0.954 mW/g



Test Laboratory: UnionTrust Date: 2019/2/11

P16_LTE 5_QPSK10M_Rear Face_10mm_20450_1RB_24 offset

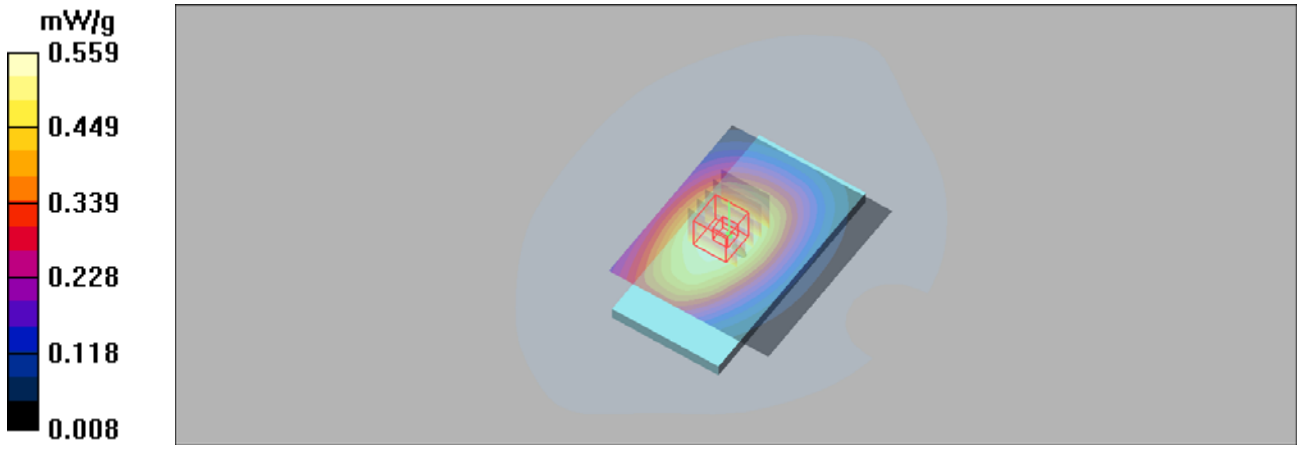
DUT: EUT

Communication System: LTE Band5; Frequency: 829 MHz;Duty Cycle: 1:1
Medium: M850 Medium parameters used: f = 829 MHz; σ = 0.986 mho/m; ε_r = 55.7; ρ = 1000 kg/m^3

DASY4 Configuration:
- Probe: ES3DV3 - SN3090; ConvF(6.41, 6.41, 6.41); Calibrated: 2018/4/3
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn662; Calibrated: 2018/5/11
- Phantom: SAM 1; Type: QD 000 P40 CB; Serial: TP/1378
- ; Postprocessing SW: SEMCAD, V1.8 Build 186

Test/Area Scan (71x81x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.559 mW/g

Test/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 25.3 V/m; Power Drift = -0.05 dB
Peak SAR (extrapolated) = 0.655 W/kg
SAR(1 g) = 0.501 mW/g; SAR(10 g) = 0.378 mW/g
Maximum value of SAR (measured) = 0.556 mW/g



Test Laboratory: UnionTrust Date: 2019/2/19

P17_LTE 7_QPSK20M_Rear Face_10mm_21350_1RB_50 offset

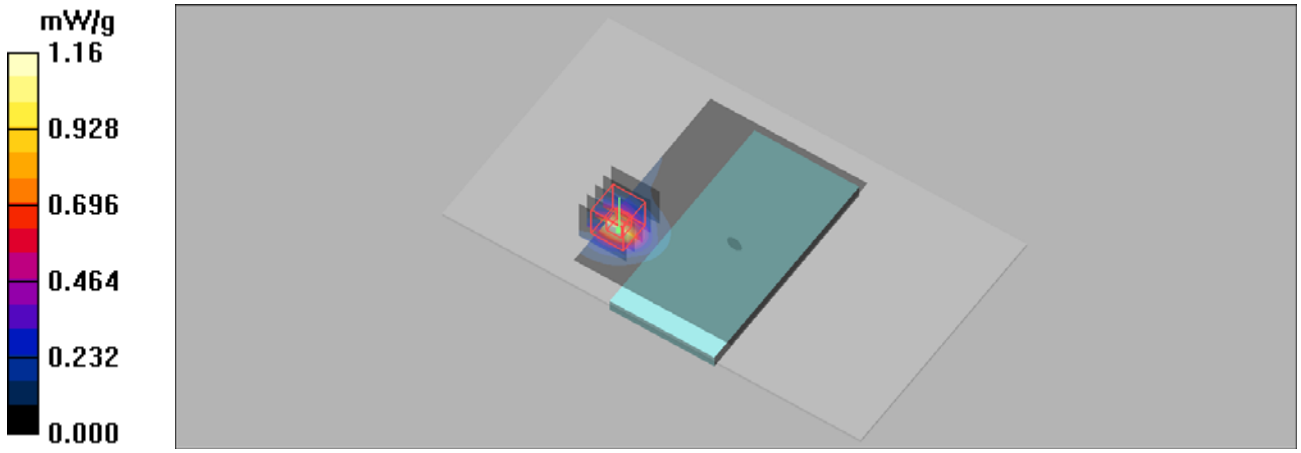
DUT: EUT

Communication System: LTE Band 7; Frequency: 2560 MHz;Duty Cycle: 1:1
Medium: M2600 Medium parameters used: f = 2560 MHz; σ = 2.15 mho/m; ε_r = 52.6; ρ = 1000 kg/m^3

DASY4 Configuration:
- Probe: ES3DV3 - SN3090; ConvF(4.2, 4.2, 4.2); Calibrated: 2018/4/3
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn662; Calibrated: 2018/5/11
- Phantom: Triple Flat Phantom 5.1C; Type: QD 000 P51 CA; Serial: 1125
- ; Postprocessing SW: SEMCAD, V1.8 Build 186

Test/Area Scan (71x91x1): Measurement grid: dx=12mm, dy=12mm
Maximum value of SAR (interpolated) = 1.16 mW/g

Test/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 2.49 V/m; Power Drift = 0.11 dB
Peak SAR (extrapolated) = 2.18 W/kg
SAR(1 g) = 1.04 mW/g; SAR(10 g) = 0.464 mW/g
Maximum value of SAR (measured) = 1.28 mW/g



Test Laboratory: UnionTrust Date: 2019/2/19

P18_802.11b_Rear Face_1

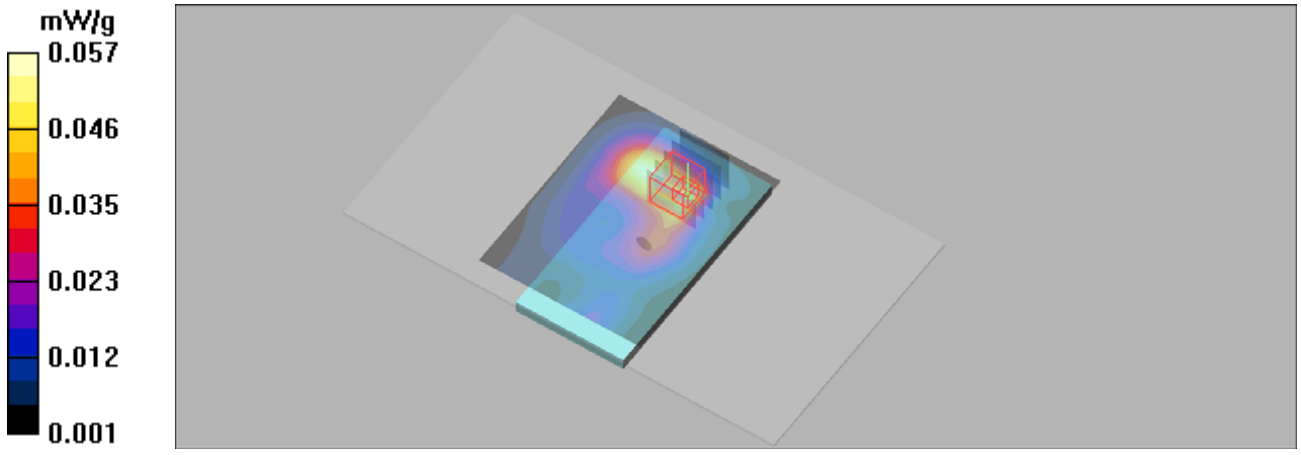
DUT: EUT

Communication System: Wlan 802.11b; Frequency: 2412 MHz;Duty Cycle: 1:1
Medium: M2450 Medium parameters used: f = 2412 MHz; σ = 1.95 mho/m; ε_r = 53; ρ = 1000 kg/m^3

DASY4 Configuration:
- Probe: ES3DV3 - SN3090; ConvF(4.43, 4.43, 4.43); Calibrated: 2018/4/3
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn662; Calibrated: 2018/5/11
- Phantom: Triple Flat Phantom 5.1C; Type: QD 000 P51 CA; Serial: 1125
- ; Postprocessing SW: SEMCAD, V1.8 Build 186

Test/Area Scan (71x91x1): Measurement grid: dx=12mm, dy=12mm
Maximum value of SAR (interpolated) = 0.057 mW/g

Test/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 3.85 V/m; Power Drift = 0.007 dB
Peak SAR (extrapolated) = 0.098 W/kg
SAR(1 g) = 0.046 mW/g; SAR(10 g) = 0.025 mW/g
Maximum value of SAR (measured) = 0.060 mW/g



Test Laboratory: UnionTrust Date: 2019/2/12

P19_GSM1900_GPRS12_Rear Face_10mm_512

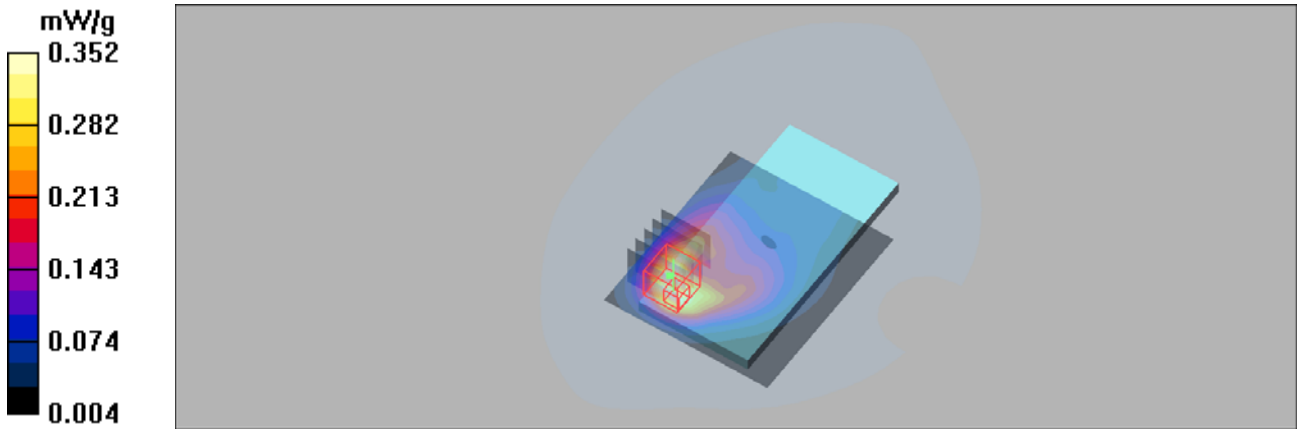
DUT: EUT

Communication System: GPRS1900-4slots; Frequency: 1850.2 MHz;Duty Cycle: 1:2
Medium: M1900 Medium parameters used: f = 1800 MHz; σ = 1.54 mho/m; ε_r = 54.2; ρ = 1000 kg/m^3

DASY4 Configuration:
- Probe: ES3DV3 - SN3090; ConvF(4.48, 4.48, 4.48); Calibrated: 2018/4/3
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn662; Calibrated: 2018/5/11
- Phantom: SAM 2; Type: QD 000 P40 CB; Serial: TP-1376
- ; Postprocessing SW: SEMCAD, V1.8 Build 186

Test/Area Scan (71x81x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.352 mW/g

Test/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 7.24 V/m; Power Drift = -0.007 dB
Peak SAR (extrapolated) = 0.527 W/kg
SAR(1 g) = 0.321 mW/g; SAR(10 g) = 0.181 mW/g
Maximum value of SAR (measured) = 0.390 mW/g



Test Laboratory: UnionTrust Date: 2019/2/12

P20_WCDMA II_RMC12.2K_Rear Face_10mm_9262

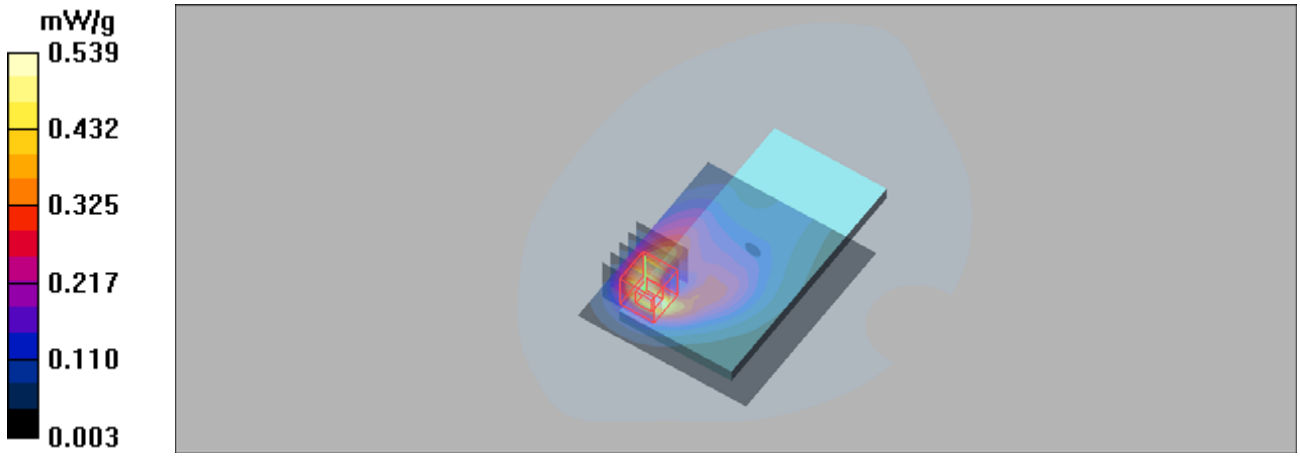
DUT: EUT

Communication System: WCDMA Band II; Frequency: 1852.4 MHz;Duty Cycle: 1:1
Medium: M1900 Medium parameters used: f = 1800 MHz; σ = 1.54 mho/m; ε_r = 54.2; ρ = 1000 kg/m^3

DASY4 Configuration:
- Probe: ES3DV3 - SN3090; ConvF(4.48, 4.48, 4.48); Calibrated: 2018/4/3
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn662; Calibrated: 2018/5/11
- Phantom: SAM 2; Type: QD 000 P40 CB; Serial: TP-1376
- ; Postprocessing SW: SEMCAD, V1.8 Build 186

Test/Area Scan (71x81x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.539 mW/g

Test/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 8.79 V/m; Power Drift = -0.11 dB
Peak SAR (extrapolated) = 0.701 W/kg
SAR(1 g) = 0.424 mW/g; SAR(10 g) = 0.239 mW/g
Maximum value of SAR (measured) = 0.506 mW/g



Test Laboratory: UnionTrust Date: 2019/2/12

P21_LTE 2_QPSK20M_Rear Face_10mm_18700_1RB_50 offset

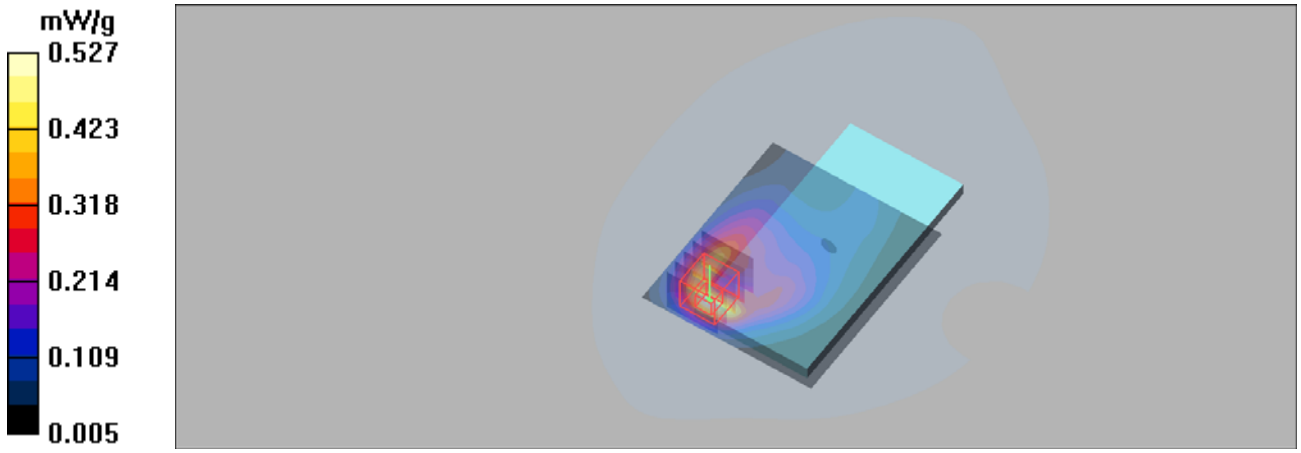
DUT: EUT

Communication System: LTE Band 2; Frequency: 1860 MHz;Duty Cycle: 1:1
Medium: M1900 Medium parameters used: f = 1860 MHz; σ = 1.5 mho/m; ε_r = 52.7; ρ = 1000 kg/m^3

DASY4 Configuration:
- Probe: ES3DV3 - SN3090; ConvF(4.48, 4.48, 4.48); Calibrated: 2018/4/3
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn662; Calibrated: 2018/5/11
- Phantom: SAM 2; Type: QD 000 P40 CB; Serial: TP-1376
- ; Postprocessing SW: SEMCAD, V1.8 Build 186

Test/Area Scan (71x81x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.527 mW/g

Test/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 8.22 V/m; Power Drift = -0.03 dB
Peak SAR (extrapolated) = 0.695 W/kg
SAR(1 g) = 0.419 mW/g; SAR(10 g) = 0.238 mW/g
Maximum value of SAR (measured) = 0.527 mW/g

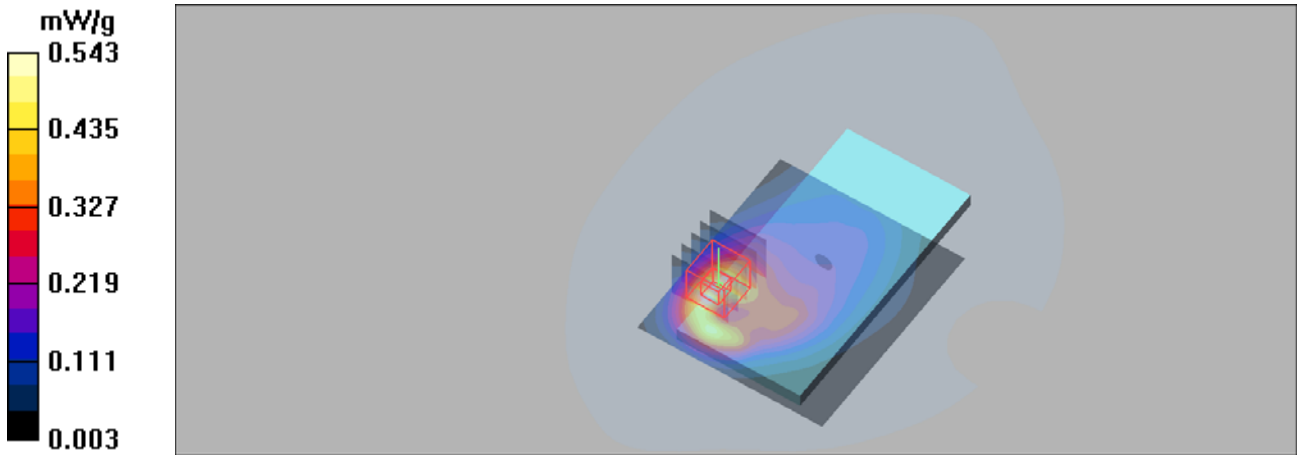


P22_LTE 4_QPSK20M_Rear Face_20300_1RB_50 offset

DUT: EUT

Communication System: LTE Band 4&20M; Frequency: 1745 MHz;Duty Cycle: 1:1
Medium: M1900 Medium parameters used: f = 1745 MHz; σ = 1.45 mho/m; ε_r = 54.3; ρ = 1000 kg/m^3

DASY4 Configuration:
- Probe: ES3DV3 - SN3090; ConvF(4.95, 4.95, 4.95); Calibrated: 2018/4/3
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn662; Calibrated: 2018/5/11
- Phantom: SAM 2; Type: QD 000 P40 CB; Serial: TP-1376
- ; Postprocessing SW: SEMCAD, V1.8 Build 186

Test/Area Scan (71x81x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.543 mW/g

Test/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 12.2 V/m; Power Drift = -0.15 dB
Peak SAR (extrapolated) = 0.722 W/kg
SAR(1 g) = 0.431 mW/g; SAR(10 g) = 0.248 mW/g
Maximum value of SAR (measured) = 0.521 mW/g